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CS 496 Section 400 Summer 2017

Final Project, Hybrid Option
RESTful Dog Foster/Adoption API Description

Notes:
- API base URL: http://cs496finaldg.appspot.com
- All paths work with or without trailing /.

Add Dog

`POST /dogs`

Input

Name	Type	Description
name	string	Required. The dog's current name.
breed	string	Optional. The dog's breed, e.g. labrador, collie, beagle, mix, etc., if known.
birthdate	string	Optional. The dog's birthdate, if known.

```
{
  "name": "Rudy",
  "breed": "mix"
}
```

Note: All dogs set to not "adopted" and not "fostered" with blank foster home upon creation.

Response

Status: 201 Created

_____

```
{
  "id": "abc123",
  "self": "/dogs/abc123",
```

```
    "name": "Rudy",
    "breed": "mix",
    "birthdate": null,
    "adopted": false,
    "fostered": false,
    "foster_home": null
 }
```

Delete Dog

DELETE /dogs/{dog_id}

Response if Dog found

Status: 204 No Content

Response if Dog not found

Status: 400 Bad Request

Modify Dog

PATCH /dogs/{dog_id}

Input

Name	Type	Description
name	string	Optional. The dog's new name.
breed	string	Optional. The dog's updated breed, e.g. labrador, collie, beagle, mix, etc. (Set to null to remove previous breed.)
birthdate	string	Optional. The dog's updated birthdate, if known. (Set as null to remove previous birthdate.)

```
{
  "name": "Ranger",
  "breed": "German Shepherd/Pitbull mix"
```

}

Note: At least one input value needed. Used for dog name change, birthdate change, breed change. All other dog attributes remain unchanged.

Response

Status: 200 OK

_____

```
{
  "id": "abc123",
  "self": "/dogs/abc123",
  "name": "Ranger",
  "breed": "German Shepherd/Pitbull mix",
  "birthdate": null,
  "adopted": false,
  "fostered": false,
  "foster_home": null
 }
```

Adopt Dog

PUT /dogs/{dog_id}

Note: If dog being adopted is "fostered", "fostered" status set to false and "foster_home" set to null.

Response

Status: 200 OK

_____

```
{
  "id": "abc123",
  "self": "/dogs/abc123",
  "name": "Ranger",
  "breed": "German Shepherd/Pitbull mix",
  "birthdate": null,
  "adopted": true,
  "fostered": false,
  "foster_home": null
 }
```

View all Dogs

```
GET /dogs
```

Response

Status: 200 OK
_____

```
{
      {
        "id": "abc123",
        "self": "/dogs/abc123",
        "name": "Ranger",
        "breed": "German Shepherd/Pitbull mix",
        "birthdate": null,
        "adopted": true,
        "fostered": false,
        "foster_home": null
      }

      {
        "id": "zyx987",
        "self": "/dogs/zyx987",
        "name": "Kipper",
        "breed": "Labrador/Collie mix",
        "birthdate": "2006-10-12",
        "adopted": false,
        "fostered": true,
        "foster_home": "345qrs"
      }

      {
        "id": "tuv765",
        "self": "/dogs/tuv765",
        "name": "Abby",
        "breed": "Bernese Mountain Dog",
        "birthdate": null,
        "adopted": false,
        "fostered": false,
        "foster_home": null
      }

…

}
```

<u>View Dog</u>

`GET /dogs/{dog_id}`

Response if Dog found

`Status: 200 OK`

_____

```
{
  "id": "zyx987",
  "self": "/dogs/zyx987",
  "name": "Kipper",
  "breed": "Labrador/Collie mix",
  "birthdate": "2006-10-12",
  "adopted": false,
  "fostered": true,
  "foster_home": "345qrs"
}
```

Response if Dog not found

`Status: 400 Bad Request`

<u>Add Foster Home</u>

`POST /foster_homes`

Input

Name	Type	Description
name	string	Required. The fosterer's name.
address	string	Required. The fosterer's address.
phone	string	Required. The fosterer's phone number.

has_children	boolean	Required. Whether the fosterer has children in the home.
has_other_pets	boolean	Required. Whether the fosterer has other pets in the home.

```
{
  "name": "David Gluckman",
  "address": "123 Main Street, Anytown, USA 45678",
  "phone": "(123) 456-7890",
  "has_children": false,
  "has_other_pets": false
 }
```

Response

Status: 201 Created

_____

```
{
  "id": "345qrs",
  "self": "/foster_homes/345qrs",
  "name": "David Gluckman",
  "address": "123 Main Street, Anytown, USA 45678",
  "phone": "(123) 456-7890",
  "has_children": false,
  "has_other_pets": false
 }
```

Delete Foster Home

DELETE /foster_homes/{foster_home_id}

Note: If dog is being fostered at deleted foster home, dog's "fostered" status set to false and "foster_home" set to null.

Response if Foster Home found

Status: 204 No Content

Response if Foster Home not found

```
Status: 400 Bad Request
```

Modify Foster Home

PATCH /foster_homes/{foster_home_id}

Input

Name	Type	Description
name	string	Optional. The fosterer's updated name.
address	string	Optional. The fosterer's updated address.
phone	string	Optional. The fosterer's updated phone number.
has_children	boolean	Optional. Whether the fosterer has children in the home.
has_other_pets	boolean	Optional. Whether the fosterer has other pets in the home.

```
{
  "address": "456 Smith Road, Anytown, USA 45678",
  "phone": "(123) 456-7890",
  "has_other_pets": true
}
```

Note: At least one input value needed. Used for updating any combination of foster home attributes. All other foster home attributes remain unchanged.

Response

```
Status: 200 OK
```

_____

```
{
  "id": "345qrs",
  "self": "/foster_homes/345qrs",
  "name": "David Gluckman",
```

```
      "address": "456 Smith Road, Anytown, USA 45678",
      "phone": "(123) 456-7890",
      "has_children": false,
      "has_other_pets": true
  }
```

View all Foster Homes

GET /foster_homes

Response

Status: 200 OK

_____

```
{
      {
        "id": "345qrs",
        "self": "/foster_homes/345qrs",
        "name": "David Gluckman",
        "address": "456 Smith Road, Anytown, USA 45678",
        "phone": "(123) 456-7890",
        "has_children": false,
        "has_other_pets": true
      }

      {
        "id": "678omg",
        "self": "/foster_homes/678omg",
        "name": "Nenes Borenes",
        "address": "321 King Road, Other Town, USA 87654",
        "phone": "(123) 789-0456",
        "has_children": false,
        "has_other_pets": true
      }

      {
        "id": "321qwerty",
        "self": "/foster_homes/321qwerty",
        "name": "Zak Anshira",
        "address": "987 Burns Road, Deetown, USA 76543",
        "phone": "(123) 567-8910",
        "has_children": true,
        "has_other_pets": true
      }
```

…

}

<u>View Foster Home</u>

GET /foster_homes/{foster_home_id}

Response if Foster Home found

Status: 200 OK

_____

```
{
  "id": "345qrs",
  "self": "/foster_homes/345qrs",
  "name": "David Gluckman",
  "address": "456 Smith Road, Anytown, USA 45678",
  "phone": "(123) 456-7890",
  "has_children": false,
  "has_other_pets": true
 }
```

Response if Foster Home not found

Status: 400 Bad Request

<u>Foster a Dog</u>

PUT /foster_homes/{foster_home_id}/dog

Input

Name	Type	Description
foster_dog	string	Required. The dog's id.

```
{
  "foster_dog": "zyx987"
```

}

Response

Status: 200 OK

_____

```
{
  "id": "zyx987",
  "self": "/dogs/zyx987",
  "name": "Kipper",
  "breed": "Labrador/Collie mix",
  "birthdate": "2006-10-12",
  "adopted": false,
  "fostered": true,
  "foster_home": "/foster_homes/345qrs"
 }
```

Unfoster a Dog

PATCH /foster_homes/{foster_home_id}/dog

Response if Dog fostered

Status: 204 No Content

Response if Dog not fostered

Status: 400 Bad Request

View Dog(s) in Foster Home

GET /foster_homes/{foster_home_id}/dog

Response

Status: 200 OK

_____

```
{
  "id": "zyx987",
  "self": "/dogs/zyx987",
```

```
    "name": "Kipper",
    "breed": "Labrador/Collie mix",
    "birthdate": "2006-10-12",
    "adopted": false,
    "fostered": true,
    "foster_home": "/foster_homes/345qrs"
}
```